

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 09|889|07SA
Source: IFW/b
Date Processed by STIC: 2/5/07

ENTERED



IFW16

RAW SEQUENCE LISTING

DATE: 02/05/2007

PATENT APPLICATION: US/09/889,075A

TIME: 15:09:40

Input Set : N:\efs\02_05_07

\09889075a_efs\201926626_1_sequence_listing.txt

Output Set: N:\CRF4\02052007\I889075A.raw

3 <110> APPLICANT: Johnson & Johnson Pty Ltd
 4 Unisearch Limited
 6 <120> TITLE OF INVENTION: Catalytic molecules
 8 <130> FILE REFERENCE: ATKINS1
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/889,075A
 C--> 10 <141> CURRENT FILING DATE: 2002-09-09
 10 <150> PRIOR APPLICATION NUMBER: PP 8103
 11 <151> PRIOR FILING DATE: 1999-01-11
 13 <160> NUMBER OF SEQ ID NOS: 20
 15 <170> SOFTWARE: PatentIn Ver. 2.1
 17 <210> SEQ ID NO: 1
 18 <211> LENGTH: 3132
 19 <212> TYPE: DNA
 20 <213> ORGANISM: Homo sapiens
 22 <400> SEQUENCE: 1
 23 ccgcagaact tggggagccg ccgcccgcct ccgcccgcgc agccagcttc cgcccgcgca 60
 24 ggaccggccc ctgccccagc ctccgcagcc gcgggcgctc caccgcccgc cgcccgcagg 120
 25 gcgagtcggg gtcgcccgcct gcacgcttct cagtgttccc cgcgccccgc atgtaaccgc 180
 26 gccaggcccc cgcaacggtg tcccctgcag ctccagcccc gggctgcacc cccccgcccc 240
 27 gacaccagct ctccagcctg ctcgctccagg atggccgcgg ccaaggccga gatgcagctg 300
 28 atgtccccgc tgcagatctc tgaccgcgtt ggatcctttc ctactcgcc caccatggac 360
 29 aactacccta agctggagga gatgatgctg ctgagcaacg gggctcccca gttcctcggc 420
 30 gccgcccggg cccagagggg cagcggcagc aacagcagca gcagcagcag cgggggcggt 480
 31 ggaggcgggc ggggcggcag caacagcagc agcagcagca gcacctcaa ccctcaggcg 540
 32 gacacgggcg agcagcccta cgagcacctg accgcagagt cttttcctga catctctctg 600
 33 aacaacgaga aggtgctggt ggagaccagt taccgagcc aaaccactcg actgcccccc 660
 34 atcacctata ctggccgctt tccctggag cctgcaccca acagtggcaa caccttgttg 720
 35 cccgagcccc tcttcagctt ggtcagtggt ctagtgcagc tgaccaacct accggcctcc 780
 36 tcgtcctcag caccatctcc agcggcctcc tccgcctccg cctcccagag cccacccctg 840
 37 agctgcgcag tgccatccaa cgacagcagt cccatttact cagcggcacc caccttcccc 900
 38 acgccgaaca ctgacatttt ccctgagcca caaagccagg ccttcccggg ctcggcaggg 960
 39 acagcgctcc agtaccgccc tctgcctac cctgccgcca aggggtggct ccagggtccc 1020
 40 atgatccccg actacctgtt tccacagcag cagggggatc tgggcctggg caccgagac 1080
 41 cagaagccct tccagggcct ggagagccgc acccagcagc cttcgctaac ccctctgtct 1140
 42 actattaagg cctttgccac tcagtcgggc tcccaggacc tgaaggccct caataccagc 1200
 43 taccagtccc agctcatcaa acccagccgc atgcgcaagt atcccaaccg gccagcaag 1260
 44 acgccccccc acgaacgccc ttacgcttgc ccagtggagt cctgtgatcg ccgcttctcc 1320
 45 cgctccgacg agctcaccgc ccacatccgc atccacacag gccagaagcc cttccagtgc 1380
 46 cgcattctga tgcgcaactt cagccgcagc gaccacctca ccaccacat ccgcaccac 1440
 47 acaggcgaaa agcccttcgc ctgcgacatc tgtggaagaa agtttgccag gagcgatgaa 1500
 48 cgcaagaggc ataccaagat ccacttgccg cagaaggaca agaaagcaga caaaagtgtt 1560
 49 gtggcctctt cggccacctc ctctctctct tcctaccggt ccccggttgc tacctcttac 1620
 50 ccgtccccgc ttactacctc ttatccatcc ccggccacca cctcataccc atcccctgtg 1680

RAW SEQUENCE LISTING

DATE: 02/05/2007

PATENT APPLICATION: US/09/889,075A

TIME: 15:09:40

Input Set : N:\efs\02_05_07

\09889075a_efs\201926626_1_sequence_listing.txt

Output Set: N:\CRF4\02052007\I889075A.raw

```

51 cccacctcct tctcctctcc cggctcctcg acctacccat cccctgtgca cagtggcttc 1740
52 ccctccccgt cgggtggccac caggtactcc tctgttcccc ctgctttccc ggcccaggtc 1800
53 agcagcttcc cttcctcagc tgtcaccaac tccttcagcg cctccacagg gctttcggac 1860
54 atgacagcaa ccttttctcc caggacaatt gaaatttgct aaagggaaag gggaaagaaa 1920
55 gggaaaaggg agaaaaagaa acacaagaga cttaaaggac aggaggagga gatggccata 1980
56 ggagaggagg gttcctctta ggtcagatgg aggttctcag agccaagtcc tgcctctcta 2040
57 ctggagtggg aggtctattg gccacaacat ctttctgccc acttccccctt ccccaattac 2100
58 tattcccttt gacttcagct gcctgaaaca gccatgtcca agttcttcac ctctatccaa 2160
59 agaacttgat ttgcatggat tttggataaa tcatttcagt atcatctcca tcatatgcct 2220
60 gaccccttgc tcccttcaat gctagaaaat cgagttggca aaatggggtt tgggcccctc 2280
61 agagccctgc cctgcaccct tgtacagtgt ctgtgccatg gatttcgttt ttcttggggg 2340
62 actcttgatg tgaagataat ttgcatattc tattgtatta tttggagtta ggtcctcact 2400
63 tgggggaaaa aaaaaaaaaa aagccaagca aaccaatggg gatcctctat tttgtgatga 2460
64 tgctgtgaca ataagtttga accttttttt ttgaaacagc agtcccagta ttctcagagc 2520
65 atgtgtcaga gtgttggtcc gttaaccttt ttgtaaatac tgcttgaccg tactctcaca 2580
66 tgtggcaaaa tatggtttgg tttttctttt ttttttttga aagtgttttt tcttcgtcct 2640
67 tttggtttaa aaagtttcac gtcttggtgc cttttgtgtg atgccccttg ctgatggctt 2700
68 gcatgtgca attgtgaggg acatgctcac ctctagcctt aaggggggga gggagtgatg 2760
69 atttggggga ggctttggga gcaaaataag gaagaggggt gagctgagct tcggttctcc 2820
70 agaatgtaag aaaacaaaat ctaaaacaaa atctgaactc tcaaaagtct atttttttaa 2880
71 ctgaaaatgt aaatttataa atatattcag gagttggaat gttgtagtta cctactgagt 2940
72 aggcggcgat ttttgtatgt tatgaacatg cagttcatta ttttgtggtt ctattttact 3000
73 ttgtacttgt gtttgcttaa acaaagtgc tgtttggctt ataaacacat tgaatgcgct 3060
74 ttattgcca tggtatatgt ggtgtatatc cttccaaaaa attaaaacga aaataaagta 3120
75 gctgcgattg gg 3132

```

78 <210> SEQ ID NO: 2

79 <211> LENGTH: 15

80 <212> TYPE: DNA

81 <213> ORGANISM: Artificial Sequence

83 <220> FEATURE:

84 <223> OTHER INFORMATION: Description of Artificial Sequence: Catalytic
 85 domain of DNazyme

87 <400> SEQUENCE: 2

15

88 ggctagctac aacga

91 <210> SEQ ID NO: 3

92 <211> LENGTH: 33

93 <212> TYPE: DNA

94 <213> ORGANISM: Artificial Sequence

96 <220> FEATURE:

97 <223> OTHER INFORMATION: Description of Artificial Sequence: DNazyme

99 <400> SEQUENCE: 3

100 caggggacag gctagctaca acgacgttgc ggg 33

103 <210> SEQ ID NO: 4

104 <211> LENGTH: 33

105 <212> TYPE: DNA

106 <213> ORGANISM: Artificial Sequence

108 <220> FEATURE:

109 <223> OTHER INFORMATION: Description of Artificial Sequence: DNazyme

111 <400> SEQUENCE: 4

RAW SEQUENCE LISTING

DATE: 02/05/2007

PATENT APPLICATION: US/09/889,075A

TIME: 15:09:40

Input Set : N:\efs\02_05_07

\09889075a_efs\201926626_1_sequence_listing.txt

Output Set: N:\CRF4\02052007\I889075A.raw

```

112 tgcaggggag gctagctaca acgaaccggt gcg 33
115 <210> SEQ ID NO: 5
116 <211> LENGTH: 33
117 <212> TYPE: DNA
118 <213> ORGANISM: Artificial Sequence
120 <220> FEATURE:
121 <223> OTHER INFORMATION: Description of Artificial Sequence: DNzyme
123 <400> SEQUENCE: 5
124 catcctggag gctagctaca acgagagcag gct 33
127 <210> SEQ ID NO: 6
128 <211> LENGTH: 33
129 <212> TYPE: DNA
130 <213> ORGANISM: Artificial Sequence
132 <220> FEATURE:
133 <223> OTHER INFORMATION: Description of Artificial Sequence: DNzyme
135 <400> SEQUENCE: 6
136 ccgcgggccag gctagctaca acgacctgga cga 33
139 <210> SEQ ID NO: 7
140 <211> LENGTH: 33
141 <212> TYPE: DNA
142 <213> ORGANISM: Artificial Sequence
144 <220> FEATURE:
145 <223> OTHER INFORMATION: Description of Artificial Sequence: DNzyme
147 <400> SEQUENCE: 7
148 ccgctgccag gctagctaca acgacccgga cgt 33
151 <210> SEQ ID NO: 8
152 <211> LENGTH: 33
153 <212> TYPE: DNA
154 <213> ORGANISM: Artificial Sequence
156 <220> FEATURE:
157 <223> OTHER INFORMATION: Description of Artificial Sequence: DNzyme
159 <400> SEQUENCE: 8
160 gcggggacag gctagctaca acgacagctg cat 33
163 <210> SEQ ID NO: 9
164 <211> LENGTH: 33
165 <212> TYPE: DNA
166 <213> ORGANISM: Artificial Sequence
168 <220> FEATURE:
169 <223> OTHER INFORMATION: Description of Artificial Sequence: DNzyme
171 <400> SEQUENCE: 9
172 cagcggggag gctagctaca acgaatcagc tgc 33
175 <210> SEQ ID NO: 10
176 <211> LENGTH: 33
177 <212> TYPE: DNA
178 <213> ORGANISM: Artificial Sequence
180 <220> FEATURE:
181 <223> OTHER INFORMATION: Description of Artificial Sequence: DNzyme
183 <400> SEQUENCE: 10
184 ggtcagagag gctagctaca acgactgcag cgg 33

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/889,075A

DATE: 02/05/2007

TIME: 15:09:40

Input Set : N:\efs\02_05_07

\09889075a_efs\201926626_1_sequence_listing.txt

Output Set: N:\CRF4\02052007\I889075A.raw

187 <210> SEQ ID NO: 11

188 <211> LENGTH: 3068

189 <212> TYPE: DNA

190 <213> ORGANISM: Mus musculus

192 <400> SEQUENCE: 11

```

193 ggggagccgc cgccgcgatt cgccgcgcgc gccagcttcg gccgcccqcaa gatcggcccc 60
194 tgcgccagcc tccgcggcag ccctgcgtcc accacgggccc gcggctaccg ccagcctggg 120
195 ggccacaccta cactccccgc agtgtgcccc tgcacccccc atgtaaccgc gccaaccccc 180
196 ggcgagtgtg ccctcagtag cttcggcccc gggctgcgcc caccacccaa catcagttct 240
197 ccagctcgct ggtccgggat ggcagcggcc aaggccgaga tgcaattgat gtctccgctg 300
198 cagatctctg acccgttcgg ctcccttcct cactcaccca ccatggacaa ctaccccaaa 360
199 ctggaggaga tgatgctgct gagcaacggg gctccccagt tcctcgggtc tgccggaacc 420
200 ccagagggca gcggcggtaa tagcagcagc agcaccagca gcggggggcg tggtaggggg 480
201 ggcagcaaca gcggcagcag cgccctcaat cctcaagggg agccgagcga acaaccctat 540
202 gagcacctga ccacagagtc cttttctgac atcgctctga ataatgagaa ggcgatgggt 600
203 gagacgagtt atcccagcca aacgactcgg ttgcctccca tcacctatac tggccgcttc 660
204 tccctggagc ccgcacccaa cagtggcaac actttgtggc ctgaaccctt tttcagccta 720
205 gtcagtggcc tcgtgagcat gacaaatcct ccgacctctt cactcctcggc gccttctcca 780
206 gctgcttcat cgtcttcctc tgccctccag agcccgcccc tgagctgtgc cgtgccgtcc 840
207 aacgacagca gtcccatcta ctcggtcgcg ccacaccttc ctactcccaa cactgacatt 900
208 tttcctgagc ccaaagcca ggcccttcct ggctcggcag gcacagcctt gcagtaccgc 960
209 cctcctgcct accctgccac caaagggtgt ttccagggtc ccatgatccc tgactatctg 1020
210 tttccacaac aacagggaga cctgagcctg ggcaccccag accagaagcc cttccagggt 1080
211 ctggagaacc gtaccagca gccttcgctc actccactat ccactattaa agccttcgcc 1140
212 actcagtcgg gctcccagga cttaaaggct cttaatacca cctaccaatc ccagctcatc 1200
213 aaaccagcc gcctgcgcaa gtaccccaac cggcccagca agacaccccc ccatgaacgc 1260
214 ccatatgctt gccctgtcga gtccctgcgt cgccgctttt ctcgctcgga tgagcttacc 1320
215 cgccatatcc gcctccacac aggcagagaag cccttcagat gtcgaatctg catgcgtaac 1380
216 ttcagtcgta gtgaccacct taccaccac atccgcaccc acacaggcga gaagcctttt 1440
217 gcctgtgaca tttgtgggag gaagtttgcc aggagtgatg aacgcaagag gcataccaaa 1500
218 atccatttaa gacagaagga caagaaagca gacaaaagtg tggtaggcct cccggctgcc 1560
219 tcttcaactc cttcttacc atccccagtg gctacctct acccatcccc tgccaccacc 1620
220 tcattcccat cccctgtgcc cacttcctac tcctctcctg gctcctccac ctaccatct 1680
221 cctgcgcaca gtggcttccc gtcgcccgtc gtggccacca cctttgcctc cgttccacct 1740
222 gctttcccca cccaggctcag cagcttcccg tctgcgggcg tcagcagctc cttcagcacc 1800
223 tcaactggtc tttcagacat gacagcgacc ttttctccca ggacaattga aatttgctaa 1860
224 agggataaaa agaaagcaaa gggagaggca ggaaagacat aaaagcacag gagggagag 1920
225 atggccgcaa gaggggccac ctcttaggtc agatggaaga tctcagagcc aagtccttct 1980
226 actcacgagt agaaggaccg ttggccaaca gccctttcac ttaccatccc tgccctcccc 2040
227 gtcctgttcc ctttgacttc agctgcctga aacagccatg tccaagtctc tcacctctat 2100
228 ccaaaggact tgatttgcat ggtattggat aaatcatttc agtatcctct ccatcacatg 2160
229 cctggccctt gctcccttca gcgctagacc atcaagttgg cataaagaaa aaaaaatggg 2220
230 tttgggccct cagaaccctg ccctgcatct ttgtacagca tctgtgccat ggattttgtt 2280
231 ttccttgggg tattcttgat gtgaagataa tttgcatact ctattgtatt atttggagtt 2340
232 aaatcctcac tttgggggag gggggagcaa agccaagcaa accaatgatg atcctctatt 2400
233 ttgtgatgac tctgctgtga cattaggttt gaagcatttt ttttttcaag cagcagtcct 2460
234 aggtattaac tggagcatgt gtcagagtgt tgttccgtta attttgtaaa tactggctcg 2520
235 actgtaactc tcacatgtga caaagtatgg tttgtttggt tgggttttgt ttttgagaat 2580
236 ttttttggcc gtccttttgg tttcaaaagt ttcacgtctt ggtgcctttt gtgtgacacg 2640

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/889,075A

DATE: 02/05/2007

TIME: 15:09:40

Input Set : N:\efs\02_05_07

\09889075a_efs\201926626_1_sequence_listing.txt

Output Set: N:\CRF4\02052007\I889075A.raw

```

237 ccttccgatg gcttgacatg cgcagatgtg agggacacgc tcaccttagc ctttaaggggg 2700
238 taggagtgat gtgttggggg aggcttgaga gcaaaaacga ggaagagggc tgagctgagc 2760
239 ttctcggtctc cagaatgtaa gaagaaaaaa tttaaaca aaatctgaact ctcaaaagtc 2820
240 tattttttcta aactgaaaat gtaaatttat acatctattc aggagttgga gtgttgtggt 2880
241 tacctactga gtaggctgca gtttttgtat gttatgaaca tgaagtccat tattttgtgg 2940
242 ttttatttta ctttqtactt gtgtttgctt aaacaaagta acctgtttgg cttataaaca 3000
243 cattgaatgc gctctattgc ccatgggata tgtgggtgtg atccttcaga aaaattaaaa 3060
244 ggaaaaat 3068
247 <210> SEQ ID NO: 12
248 <211> LENGTH: 4321
249 <212> TYPE: DNA
250 <213> ORGANISM: Rattus rattus
252 <400> SEQUENCE: 12
253 ccgcggagcc tcagctctac gcgcctggcg ccctccctac gcgggcgtcc ccgactcccg 60
254 cgcgcggttca ggctccgggt tgggaaccaa ggagggggag ggtgggtgcg ccgaccgga 120
255 aacaccatat aaggagcagg aaggatcccc cgccggaaca gaccttattt gggcagcgcc 180
256 ttatatggag tggcccaata tggccctgcc gcttccggct ctgggaggag gggcgaacgg 240
257 ggggttggggc gggggcagc tgggaactcc aggagcctag ccggggaggo cactgccgct 300
258 gttccaatac taggctttcc aggagcctga gcgctcaggg tgccggagcc ggtcgcaggg 360
259 tgggaagcgcc caccgctctt ggatgggagg tcttcacgtc actccgggtc ctcccggtcg 420
260 gtccttccat attagggtt cctgcttccc atatattggc atgtacgtca cggcggaggc 480
261 gggcccgtgc tgtttcagac ccttgaaata gaggccgatt cggggagtcg cgagagatcc 540
262 cagcgcgagc aacttgggga gccgcgcgcg cgattcgccg ccgcccagag ctccgcgcgc 600
263 cgcaagatcg gcccttgccc cagcctccgc ggcagccctg cgtccaccac gggccgcggc 660
264 caccgccagc ctggggggccc acctacactc cccgcagtgt gccctgcac cccgcatgta 720
265 acccgggcaa catccggcga gtgtgcccctc agtagcttcg gcccggggct gcgcccacca 780
266 cccaacatca gctctccagc tcgcacgtcc gggatggcag cggccaaggc cgagatgcaa 840
267 ttgatgtctc cgctgcagat ctctgacccg ttcggctcct ttcctcactc acccaccatg 900
268 gacaactacc ccaaactgga ggagatgatg ctgctgagca acggggctcc ccagttcctc 960
269 ggtgctgccg gaaccccaga gggcagcggc ggcaataaca gcagcagcag cagcagcagc 1020
270 agcagcgggg gcggtggtgg gggcggcagc aacagcggca gcagcgttt caatcctcaa 1080
271 ggggagccga gcgaacaacc ctacgagcac ctgaccacag gtaagcgggtg gtctgcgcgc 1140
272 aggctgaatc ccccttcgtg actaccctaa cgtccagtcc tttgcagcac ggacctgcat 1200
273 ctagatctta gggacgggat tgggatttcc ctctattcca cacagctcca gggacttgtg 1260
274 ttagagggat gtctggggac cccccaaccc tccatccttg cgggtgcgcg gagggcagac 1320
275 cgtttgtttt ggatggagaa ctcaagtgtc gtgggtggct ggagtggggg agggtttgtt 1380
276 ttgatgagca gggttgcccc ctcccccgcg cgcgttgctg cgagccttgt ttgcagcttg 1440
277 ttcccaagga agggctgaaa tctgtcacca gggatgtccc gccgcccagg gtaggggagc 1500
278 gcattagctg tggccactag ggtgctggcg ggattccctc acccggagc cctgctgcgg 1560
279 agcgtcttca gagctgcagt agagggggat tctctgtttg cgtcagctgt cgaaatggct 1620
280 ctgccactgg agcaggtcca ggaacattgc aatctgctgc tatcaattat taaccacatc 1680
281 gagagtcatg ggtagccggg cgacctcttg cctggccgct tcggctctca tcgtccagtg 1740
282 attgctctcc agtaaccagg cctctctgtt ctctttcctg ccagagtcct tttctgacat 1800
283 cgctctgaat aacgagaagg cgctggtgga gacaagtatt cccagccaaa ctaccgggtt 1860
284 gcctcccatc acctatactg gccgcttctc cctggagcct gcaccaaca gtggcaacac 1920
285 tttgtggcct gaaccccttt tcagcctagt cagtggcctt gtgagcatga ccaaccctcc 1980
286 aacctcttca tcctcagcgc cttctccagc tgcttcatcg tcttctctg cctcccagag 2040
287 cccacccctg agctgtgccg tgccgtccaa cgacagcagt cccatttact cagctgcacc 2100
288 cacctttcct actcccaaca ctgacatttt tctgagccc caagccagg cctttcctgg 2160

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/889,075A

DATE: 02/05/2007

TIME: 15:09:41

Input Set : N:\efs\02_05_07

\09889075a_efs\201926626_1_sequence_listing.txt

Output Set: N:\CRF4\02052007\I889075A.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date